

Algebraic Topology Homework

John Hatcher's "Algebraic Topology"

Part A

1. The second homology of $\mathbb{R}P^2$ is a quotient of a certain quotient of $\mathbb{Z}$. Compute $H_2(\mathbb{R}P^2)$ by finding all the subgroups of $\mathbb{Z}$. $H_2(\mathbb{R}P^2)$ is a quotient of $\mathbb{Z}$ by a subgroup of $\mathbb{Z}$.

$$\begin{array}{ccc} \mathbb{Z} & \xrightarrow{\quad \partial_2 \quad} & \mathbb{Z} \\ \downarrow & & \downarrow \\ \mathbb{Z} & \xrightarrow{\quad \partial_1 \quad} & \mathbb{Z} \end{array}$$

Use this exact sequence to compute $H_2(\mathbb{R}P^2)$ and $H_1(\mathbb{R}P^2)$. (You may use the fact that $H_0(\mathbb{R}P^2) \cong \mathbb{Z}$.)

2. The second homology of $\mathbb{R}P^2$ is a quotient of a certain quotient of $\mathbb{Z}$. Compute $H_2(\mathbb{R}P^2)$ by finding all the subgroups of $\mathbb{Z}$. $H_2(\mathbb{R}P^2)$ is a quotient of $\mathbb{Z}$ by a subgroup of $\mathbb{Z}$.

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Use this exact sequence to compute $H_2(\mathbb{R}P^2)$ and $H_1(\mathbb{R}P^2)$.

3. Show that the homomorphism ∂_2 from $H_2(\mathbb{R}P^2)$ to $H_1(\mathbb{R}P^2)$ is an isomorphism.

$$\partial_2: H_2(\mathbb{R}P^2) \rightarrow H_1(\mathbb{R}P^2)$$

is an isomorphism. (You may use the fact that $H_0(\mathbb{R}P^2) \cong \mathbb{Z}$.)

4. Compute $H_2(\mathbb{R}P^2)$ and $H_1(\mathbb{R}P^2)$ by finding all the subgroups of $\mathbb{Z}$. $H_2(\mathbb{R}P^2)$ is a quotient of $\mathbb{Z}$ by a subgroup of $\mathbb{Z}$.

$$\begin{array}{ccc} \mathbb{Z} & \xrightarrow{\quad \partial_2 \quad} & \mathbb{Z} \\ \downarrow & & \downarrow \\ \mathbb{Z} & \xrightarrow{\quad \partial_1 \quad} & \mathbb{Z} \end{array}$$

Use this exact sequence to compute $H_2(\mathbb{R}P^2)$ and $H_1(\mathbb{R}P^2)$.

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$$\begin{array}{ccc} \mathbb{Z} & \xrightarrow{\quad \partial_2 \quad} & \mathbb{Z} \\ \downarrow & & \downarrow \\ \mathbb{Z} & \xrightarrow{\quad \partial_1 \quad} & \mathbb{Z} \end{array}$$

Use this exact sequence to compute $H_2(\mathbb{R}P^2)$ and $H_1(\mathbb{R}P^2)$.

5. Let $f: \mathbb{R}P^2 \rightarrow \mathbb{R}P^2$ be the map $f(x) = x^2$. Compute $H_2(f)$ and $H_1(f)$. (You may use the fact that $H_0(\mathbb{R}P^2) \cong \mathbb{Z}$.)

$$f_*: H_2(\mathbb{R}P^2) \rightarrow H_2(\mathbb{R}P^2) \quad f_*: H_1(\mathbb{R}P^2) \rightarrow H_1(\mathbb{R}P^2)$$

is an isomorphism. (You may use the fact that $H_0(\mathbb{R}P^2) \cong \mathbb{Z}$.)

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Padhraic Smyth



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but precise Every lecture is accompanied by exercises It begins slowly in order to gather up students with a variety of backgrounds but gains pace as the course progresses and by the end the student has a command of all the basic techniques of classical homotopy theory

Algebraic Topology Clark Bray, Adrian Butscher, Simon Rubinstein-Salzedo, 2021-06-18 Algebraic Topology is an introductory textbook based on a class for advanced high school students at the Stanford University Mathematics Camp SUMaC that the authors have taught for many years Each chapter or lecture corresponds to one day of class at SUMaC The book begins with the preliminaries needed for the formal definition of a surface Other topics covered in the book include the classification of surfaces group theory the fundamental group and homology This book assumes no background in abstract algebra or real analysis and the material from those subjects is presented as needed in the text This makes the book readable to undergraduates or high school students who do not have the background typically assumed in an algebraic topology book or class The book contains many examples and exercises allowing it to be used for both self study and for an introductory undergraduate topology course

Algebraic Topology and Related Topics Mahender Singh, Yongjin Song, Jie Wu, 2019-02-02 This book highlights the latest advances in algebraic topology from homotopy theory braid groups configuration spaces and toric topology to transformation groups and the adjoining area of knot theory It consists of well written original research papers and survey articles by subject experts most of which were presented at the 7th East Asian Conference on Algebraic Topology held at the Indian Institute of Science Education and Research IISER Mohali Punjab India from December 1 to 6 2017 Algebraic topology is a broad area of mathematics that has seen enormous developments over the past decade and as such this book is a valuable resource for graduate students and researchers working in the field

Lectures on Algebraic Topology Sergei Vladimirovich Matveev, 2006 Algebraic topology is the study of the global properties of spaces by means of algebra It is an important branch of modern mathematics with a wide degree of applicability to other fields including geometric topology differential geometry functional analysis differential equations algebraic geometry number theory and theoretical physics This book provides an introduction to the basic concepts and methods of algebraic topology for the beginner It presents elements of both homology theory and homotopy theory and includes various applications The author's intention is to rely on the geometric approach by appealing to the reader's own intuition to help understanding The numerous illustrations in the text also serve this purpose Two features make the text different from the standard literature first special attention is given to providing explicit algorithms for calculating the homology groups and for manipulating the fundamental groups Second the book contains many exercises all of which are supplied with hints or solutions This makes the book suitable for both classroom use and for independent study

Algebraic Topology C. R. F. Maunder, 1970 *Algebraic Topology* Colloquium on Algebraic Topology, 1962

Elements of Algebraic Topology James R. Munkres, Steven G. Krantz, Harold R. Parks, 2025-05-27 This classic text appears here in a new edition for the first time in four decades The new edition with the aid of two new authors brings it up

to date for a new generation of mathematicians and mathematics students Elements of Algebraic Topology provides the most concrete approach to the subject With coverage of homology and cohomology theory universal coefficient theorems Kunneth theorem duality in manifolds and applications to classical theorems of point set topology this book is perfect for communicating complex topics and the fun nature of algebraic topology for beginners This second edition retains the essential features of the original book Most of the notation and terminology are the same There are some useful additions There is a new introduction to homotopy theory A new Index of Notation is included Many new exercises are added Algebraic topology is a cornerstone of modern mathematics Every working mathematician should have at least an acquaintance with the subject This book which is based largely on the theory of triangulations provides such an introduction It should be accessible to a broad cross section of the profession both students and senior mathematicians Students should have some familiarity with general topology Algebraic Topology ,1973 **Algebraic Topology** Allen Hatcher,2002 In most mathematics departments at major universities one of the three or four basic first year graduate courses is in the subject of algebraic topology This introductory textbook in algebraic topology is suitable for use in a course or for self study featuring broad coverage of the subject and a readable exposition with many examples and exercises The four main chapters present the basic material of the subject fundamental group and covering spaces homology and cohomology higher homotopy groups and homotopy theory generally The author emphasizes the geometric aspects of the subject which helps students gain intuition A unique feature of the book is the inclusion of many optional topics which are not usually part of a first course due to time constraints and for which elementary expositions are sometimes hard to find Among these are Bockstein and transfer homomorphisms direct and inverse limits H spaces and Hopf algebras the Brown representability theorem the James reduced product the Dold Thom theorem and a full exposition of Steenrod squares and powers Researchers will also welcome this aspect of the book Algebraic Topology ,1977-01-01 **Algebraic Topology** Wolfgang Franz,1968 **Algebraic Topology** Solomon Lefschetz,1942 **Lectures on Algebraic Topology** Marvin J. Greenberg,1971

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